# 997 Functional Acknowledgment

Functional Group ID=FA

#### **Introduction:**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Functional Acknowledgment Transaction Set (997) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to define the control structures for a set of acknowledgments to indicate the results of the syntactical analysis of the electronically encoded documents. The encoded documents are the transaction sets, which are grouped in functional groups, used in defining transactions for business data interchange. This standard does not cover the semantic meaning of the information encoded in the transaction sets.

#### **Notes:**

Use this implementation convention to acknowledge receipt, and acceptance or rejection of a functional group and the transaction set(s) contained within it based upon EDI translation software syntax edits.

Must Use	Pos. <u>No.</u> 010	Seg. <u>ID</u> ST	<u>Name</u> Transaction Set Header	Req. Des. M	Max.Use	Loop <u>Repeat</u>	Notes and <u>Comments</u> n1
Must Use	020	AK1	Functional Group Response Header	M	1		n2
			LOOP ID - AK2			999999	
	030	AK2	Transaction Set Response Header	О	1		n3
			LOOP ID - AK3			999999	
	040	AK3	Data Segment Note	O	1		c1
	050	AK4	Data Element Note	O	99		
Must Use	060	AK5	Transaction Set Response Trailer	M	1		
Must Use	070	AK9	Functional Group Response Trailer	M	1		
Must Use	080	SE	Transaction Set Trailer	M	1		

#### **Transaction Set Notes**

- 1. These acknowledgments shall not be acknowledged, thereby preventing an endless cycle of acknowledgments of acknowledgments.
  - The Functional Group Header Segment (GS) is used to start the envelope for the Functional Acknowledgment Transaction Sets. In preparing the functional group of acknowledgments, the application sender's code and the application receiver's code, taken from the functional group being acknowledged, are exchanged; therefore, one acknowledgment functional group responds to only those functional groups from one application receiver's code to one application sender's code.
  - There is only one Functional Acknowledgment Transaction Set per acknowledged functional group.
- **2.** AK1 is used to respond to the functional group header and to start the acknowledgement for a functional group. There shall be one AK1 segment for the functional group that is being acknowledged.
- 3. AK2 is used to start the acknowledgement of a transaction set within the received functional group. The AK2 segments shall appear in the same order as the transaction sets in the functional group that has been received and is being acknowledged.

#### **Transaction Set Comments**

1. The data segments of this standard are used to report the results of the syntactical analysis of the functional groups of transaction sets; they report the extent to which the syntax complies with the standards for

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transaction sets and functional groups. They do not report on the semantic meaning of the transaction sets (for example, on the ability of the receiver to comply with the request of the sender).

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Segment: ST Transaction Set Header

**Position:** 010

Loop: Level:

**Usage:** Mandatory

Max Use:

**Purpose:** To indicate the start of a transaction set and to assign a control number

**Syntax Notes:** 

**Semantic Notes:** 1 The transaction set identifier (ST01) used by the translation routines of the

interchange partners to select the appropriate transaction set definition (e.g., 810

selects the Invoice Transaction Set).

**Comments:** 

Ref.	Data		
Des.	<b>Element</b>	<u>Name</u>	<b>Attributes</b>
ST01	143	Transaction Set Identifier Code	M ID 3/3
		Code uniquely identifying a Transaction Set	
		997 X12.20 Functional Acknowledgmen	nt
ST02	329	Transaction Set Control Number	M AN 4/9
		Identifying control number that must be unique within th	e transaction set
		functional group assigned by the originator for a transact	cion set
		Use to transmit a unique number assigned by the origin	ator of the
		transaction set. The number may be system generated. will be cited in SE02.	This same number
	Des.	Des. Element ST01 143	Des.   Element   Name   Transaction Set Identifier Code   Code uniquely identifying a Transaction Set   997   X12.20 Functional Acknowledgment   ST02   329   Transaction Set Control Number   Identifying control number that must be unique within the functional group assigned by the originator for a transact   Use to transmit a unique number assigned by the original   Use to transmit a unique number assigned by the original   Use to transmit a unique number assigned   Use to transmit a unique number   Use to transmit a uni

Segment:  $\mathbf{A}\mathbf{K}\mathbf{1}$  Functional Group Response Header

Position: 020

Loop: 02

Loop.

**Usage:** Mandatory

Max Use:

**Purpose:** To start acknowledgment of a functional group

Syntax Notes: Semantic Notes:

1 AK101 is the functional ID found in the GS segment (GS01) in the functional group being acknowledged.

2 AK102 is the functional group control number ound in the GS segment in the functional group being acknowledged.

**Comments:** 

**Notes:** 

1. Use to identify the unique identification number of the functional group in which the transaction set(s) being acknowledged was received.

2. Only one functional group may be referenced in a single 997 acknowledgment transaction set.

	Ref.	Data	·		
	Des.	<b>Element</b>	<u>Name</u>	<u>Attr</u>	<u>ributes</u>
Must Use	AK101	479	Functional Identifier Code	M	ID 2/2
			Code identifying a group of application related transaction	ı sets	
			Cite, using the appropriate code from the X12 code list, to group ID found in GS01 of the functional group being at Refer to 003060 Data Element Dictionary for acceptable of	cknov	vledged.
Must Use	AK102	28	<b>Group Control Number</b> Assigned number originated and maintained by the sender	<b>M</b>	N0 1/9
			Use to identify the number cited in GS06 of the function acknowledged.	al gro	oup being

Segment: AK2 Transaction Set Response Header

**Position:** 030 **Loop:** AK2

Level:

Usage: Optional

Max Use:

**Purpose:** 

To start acknowledgment of a single transaction set

Syntax Notes: Semantic Notes:

- 1 AK201 is the transaction set ID found in the ST segment (ST01) in the transaction set being acknowledged.
- 2 AK202 is the transaction set control number found in the ST segment in the transaction set being acknowledged.

#### **Comments:**

**Notes:** 

- 1. Use to identify the unique identification number of the transaction set being acknowledged.
- 2. AK2 and AK5 shall be provided for each transaction set that is accepted.
- 3. Also, AK2 and AK5 shall be provided for each transaction set being rejected for containing a syntactical error.

Must Use	Ref. <u>Des.</u> AK201	Data Element 143	Name Transaction Set Identifier Code Code uniquely identifying a Transaction Set Refer to 003060 Data Element Dictionary for acceptable	M	ributes ID 3/3	
Must Use	AK202	329	Transaction Set Control Number Identifying control number that must be unique within the functional group assigned by the originator for a transact Use to identify the number cited in SE02/ST02 of the transaction.	M AN 4/9  The within the transaction set of a transaction set		
			acknowledged.			

Segment: AK3 Data Segment Note

**Position:** 040 **Loop:** AK3

Level:

Usage: Optional

Max Use:

Purpose: To report en

To report errors in a data segment and identify the location of the data segment

Syntax Notes: Semantic Notes: Comments:

Notes: This 1/AK3/040 loop shall be used only to identify one or more segments containing

syntactical errors resulting in rejection of the transaction set or functional group. This loop shall not be used when transaction set and functional group receipt and

acceptance is being acknowledged.

			Data Element Summary					
	Ref.	Data						
	Des.	<b>Element</b>	<u>Name</u>	Att	<u>ributes</u>			
<b>Must Use</b>	AK301	721	Segment ID Code	M	ID 2/3			
			Code defining the segment ID of the data segment in error	: (See	e Appendix A -			
			Number 77)					
			Use to identify the segment containing syntactical errors	, as i	t appears in			
			the ASC X12 Data Segment Dictionary, e.g., DTM, N1, I	REF,	etc.			
<b>Must Use</b>	AK302	719	Segment Position in Transaction Set	M	N0 1/6			
			The numerical count position of this data segment from th	e sta	rt of the			
			transaction set: the transaction set header is count position	1				
			Use to identify the segment's sequential position within t	he do	ıta stream of			
			the transaction set as transmitted. This number is not th	e seg	ment's			
			position number portrayed in the transaction set structure. For example, if					
			the segments used in an 810 request for progress paymen	it we	re as follows:			
			ST, BIG, REF, N1, N1, PER, ITD, DTM, IT1, IT1, SLN	, SLI	N, SLN, TDS,			
			CTT, SE, and there was a syntax error in the second use	of th	ne N1 segment,			
			the number cited would be 5. If the syntax error was in	the th	ird use of the			
			SLN segment, the number cited would be 13.					
	AK303	447	Loop Identifier Code	O	AN 1/4			
			The loop ID number given on the transaction set diagram	is the	value for this			
			data element in segments LS and LE					
	AK304	720	Segment Syntax Error Code	O	ID 1/3			
			Code indicating error found based on the syntax editing or	f a se	gment			
			1. Use only when a segment is being rejected, to identify					
			rejection. Do not use when the error is in a data element					
			and editing is being done at least to that level.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	in ine segment			
			Refer to 003060 Data Element Dictionary for acceptable of	ode i	values			
			Refer to 003000 Data Element Dictionary for acceptable c	out	varues.			

Segment: AK4 Data Element Note

**Position:** 050 **Loop:** AK3

Level:

Usage: Optional Max Use: 99

Max Use: 99

Purpose: To report errors in a data element and identify the location of the data element

Syntax Notes: Semantic Notes: Comments:

**Notes:** 

Use to identify an error with a data element. When used, there must be a use of the AK3 segment citing the segment in which the data element with the error appears. Use multiple occurrences of this segment to identify all data element errors within the segment specified in the preceding AK3 segment.

	Ref.	Data	Data Element Summary					
	Des.	Element	Name	Attı	<u>ributes</u>			
<b>Must Use</b>	$\overline{AK401}$	C030	Position in Segment	M				
			Code indicating the relative position of a simple data elemposition of a composite data structure combined with the the component data element within the composite data structure starts with 1 for the simple data element or composition immediately following the segment ID	relativ ucture	ve position of e, in error; the			
Must Use	C03001	722	Element Position in Segment	M	N0 1/2			
			This is used to indicate the relative position of a simple data element, or the relative position of a composite data structure with the relative position of the component within the composite data structure, in error; in the data segment the count starts with 1 for the simple data element or composite data structure immediately following the segment ID					
			Use to indicate the position of the data element, within the containing the error, e.g., 3, 12, etc.	ie seg	gment,			
	C03002	1528	<b>Component Data Element Position in Composite</b>	O	N0 1/2			
			To identify the component data element position within the in error	e cor	mposite that is			
Must Use	AK402	725	Data Element Reference Number	0	N0 1/4			
			Reference number used to locate the data element in the D Dictionary	ata E	lement			
			Use to identify the data element number as it appears in a Element Dictionary, for example, the data element numb the data element number for N103 is 66.					
Must Use	AK403	723	Data Element Syntax Error Code	M	ID 1/3			
			Code indicating the error found after syntax edits of a data	ı elen	nent			
			Refer to 003060 Data Element Dictionary for acceptable of	ode v	alues.			
	AK404	724	Copy of Bad Data Element	O	AN 1/99			
			This is a copy of the data element in error					

Segment: AK5 Transaction Set Response Trailer

**Position:** 060 **Loop:** AK2

Level:

Usage: Mandatory

Max Use:

**Purpose:** To acknowledge acceptance or rejection and report errors in a transaction set

Syntax Notes: Semantic Notes: Comments:

Notes: Use to indicate whether the transaction set indicated in the corresponding AK2

segment was accepted or rejected. If the transaction set is being rejected, use this

segment to identify up to five (5) syntax errors at the transaction level.

		_	Data Element Summary					
	Ref.	Data						
	<u>Des.</u>	<b>Element</b>	Name		<u>ributes</u>			
Must Use	AK501	717	Transaction Set Acknowledgment Code	$\mathbf{M}$	ID 1/1			
			Code indicating accept or reject condition based on the sys	ıtax	editing of the			
			transaction set					
			Refer to 003060 Data Element Dictionary for acceptable c	ode v	values.			
	AK502	718	Transaction Set Syntax Error Code	O	ID 1/3			
			Code indicating error found based on the syntax editing of	a tra	ansaction set			
			1. Use only when a transaction set is being rejected, to identify the basis for rejection. If multiple codes apply, they may be carried in AK503 through AK506, as necessary. No individual code may be used more than once in a single use of this segment.					
			2. Use code 5 when the 1/AK3/040 loop is not used and soccurred below the transaction set level.	ynta	ctical errors			
			Refer to 003060 Data Element Dictionary for acceptable c	odo 1	zaluos			
	A 17.502	710	•					
	AK503	718	Transaction Set Syntax Error Code	0	ID 1/3			
			Code indicating error found based on the syntax editing of					
			Refer to 003060 Data Element Dictionary for acceptable c	ode v	values.			
	AK504	718	Transaction Set Syntax Error Code	O	ID 1/3			
			Code indicating error found based on the syntax editing of	a tra	ansaction set			
			Refer to 003060 Data Element Dictionary for acceptable c	ode v	values.			
	AK505	718	Transaction Set Syntax Error Code	O	ID 1/3			
			Code indicating error found based on the syntax editing of	a tra	ansaction set			
			Refer to 003060 Data Element Dictionary for acceptable c	ode 1	values.			
	AK506	718	Transaction Set Syntax Error Code	O	ID 1/3			
			Code indicating error found based on the syntax editing of	a tra	ansaction set			
			Refer to 003060 Data Element Dictionary for acceptable c					
			Refer to 505500 Bata Element Bietionary for acceptable c	Juc 1	aracs.			

Segment: AK9 Functional Group Response Trailer

Position: 070

Loop: Level:

**Usage:** Mandatory

Max Use:

Purpose: To acknowledge acceptance or rejection of a functional group and report the number of

included transaction sets from the original trailer, the accepted sets, and the received

sets in this functional group

Syntax Notes: Semantic Notes:

**Comments:** 

1 If AK901 contains the value "A" or "E", then the transmitted functional group is accepted. If AK901 contains the value "R", then the transmitted group is rejected.

Notes: 1. Use only to indicate whether the functional group was accepted or rejected based on syntax errors in the functional group header or trailer.

- 2. If a functional group is rejected, all transaction sets within that group must be rejected using the AK9. In this case, individual AK2s for the rejected transaction sets need not be provided.
- 3. If the functional group is being rejected, use to identify up to five (5) syntax errors at the functional group level.

	Ref.	Data	Data Element Summary				
	Des.	<b>Element</b>	<u>Name</u>	Att	<u>ributes</u>		
Must Use	AK901	715	Functional Group Acknowledge Code	$\mathbf{M}$	ID 1/1		
			Code indicating accept or reject condition based on the sys	ntax	editing of the		
			functional group				
			Refer to 003060 Data Element Dictionary for acceptable c	ode '			
Must Use	AK902	97	Number of Transaction Sets Included	M	N0 1/6		
			Total number of transaction sets included in the functional				
			interchange (transmission) group terminated by the trailer element	cont	aining this data		
Must Use	AK903	123	Number of Received Transaction Sets	M	N0 1/6		
Widst Osc	AIX)UJ	123	Number of Transaction Sets received	141	110 1/0		
Must Use	AK904	2	<b>Number of Accepted Transaction Sets</b>	M	N0 1/6		
		_	Number of accepted Transaction Sets in a Functional Grou	ıp	- 1 1.		
	AK905	716	Functional Group Syntax Error Code	0	ID 1/3		
			Code indicating error found based on the syntax editing of the functional group header and/or trailer				
			1. Use only when a functional group is being rejected to for rejection.	iden	tify the basis		
			2. Codes may also be carried in AK906 through AK909,	hut z	o individual		
			code may be used more than once in a single iteration of				
			Refer to 003060 Data Element Dictionary for acceptable c		•		
	AK906	716	Functional Group Syntax Error Code	0	ID 1/3		
			Code indicating error found based on the syntax editing of	the	functional		
			group header and/or trailer				
			Refer to 003060 Data Element Dictionary for acceptable c	ode '			
	AK907	716	Functional Group Syntax Error Code	O	ID 1/3		
			Code indicating error found based on the syntax editing of	the	functional		
			group header and/or trailer				

# AK908 716 Functional Group Syntax Error Code O ID 1/3

Code indicating error found based on the syntax editing of the functional group header and/or trailer

Refer to 003060 Data Element Dictionary for acceptable code values.

# AK909 716 Functional Group Syntax Error Code O ID 1/3

Code indicating error found based on the syntax editing of the functional group header and/or trailer

Refer to 003060 Data Element Dictionary for acceptable code values.

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Segment: **SE** Transaction Set Trailer

**Position:** 080

Loop: Level:

**Usage:** Mandatory

Max Use:

**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments)

**Syntax Notes:** 

**Semantic Notes:** 

**Comments:** 1 SE is the last segment of each transaction set.

	Ref.	Data			
	Des.	<b>Element</b>	Name	<u>Attı</u>	<u>ributes</u>
Must Use	SE01	96	Number of Included Segments	M	N0 1/10
			Total number of segments included in a transaction set inclusegments	ıdin	ng ST and SE
Must Use	SE02	329	Transaction Set Control Number	M	AN 4/9
			Identifying control number that must be unique within the t functional group assigned by the originator for a transaction <i>Use the same number cited in ST02</i> .		